· 文学上是传来的影響等的表現的表現的影響的影響的影響的影響。 古典的思考的大學學的知识中心,如此可以可以可以不知识不知,可以可以不知识,可以不知识,可以不知识不知识。

BOROZNIN, A.A.; BLOKH, E.L.; ROMANOV, G.I.; KHRENOV, G.S.; KUKUSHKIN, A.I., inzh., red.; TARAYEVA, Ye.K., red.izd-va; MOCHALINA, Z.S., tekhn. red.

[Economic effectiveness of the introduction of new techniques in heat insulating operations] Ekonomicheskaia effektivnost' vnedreniia novoi tekhniki v proizvodstvo teploizoliatsionnykh rabot; opyt tresta Stroitermoizoliatsiia. Moskva, Gosstroiizdat, 1962.

(MIRA 16:2)

(Insulation (Heat))--Technological innovations)

BLOKH, E.L., inzh.; POTOKER, I.M., inzh.; ROMANOV, G.I., inzh.; KHRENOV, G.S., inzh.; DANILOV, P.P., nauchnyy red.; IRAZANISEVA, L.I., red.; TARKHOVA, K.Ye., tekhn. red.

[Safety instructions for insulation work and the manufacture of materials at production bases] Instruktivnye ukasaniia po tekhnike bezopasnosti pri proizvodstve teploizoliatsionnykh rabot i izgotovlenii materialov na proizvodstvennykh basakh. Moskva, Gosstroiizdat, 1963. 102 p. (MIRA 16:9)

1. Russia (1917- R.S.F.S.R.) Ministerstvo montashnykh i spetsial'nykh stroitel'nykh rabot. Tekhnicheskoye upravleniye.

(Insulating materials) (Industrial safety)

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	경소 시간 100 100 100 100 100 100 100 100 100 10			
USSR/ Miscella	neous – Conferences			
Card 1/1	Pub. 124 - 12/39			
Authors s	Khrenov, I. A., Cand. of Hist. Sc.			
Title :	International Scientific Life. The session of the Polish Acad. of Sc. devoted to the 50-th anniversary of the First Russian Revolution			
Periodical :	Vest. AN SSSR 26/2, 81-83, Feb 1956			
Abstract :	Minutes are presented from the special session held by the Academy of Sciences Warsaw, Poland, celebrating the 50-th anniversary of the First Russian Revolution of 1905-1907. Present at this session were delegates of scientific institutions from Bulgaria, Hungary, Rumania, Czechoslovakia, Albania, Yugoslavia and East Germany.			
Institution:				
Submitted:				

1 31998-65 / 1 ACCESSION NE	Evt(m)/Ept(c)/Evp(v)/Epr/E R: At5004101	P(j)/T Pc-4/Pr-4/Ps- S/0000/64/000/000/	li Wa/OS/RM /0130/0135
Myagkov, P. L. TITLE: The de	rikeyev, G.A.; Antchak, V.K.; Lebedev, I.M.; Kolodyazhi estruction of rubberized mate	rials by abrasion	24 B+1
1961. Friksion Lzd-vo Khimiya TOPIC TAGS:	chno-tekhnicheskoye soveshol nyy Iznos rezin (Frictional w 1, 1964, 130-135 synthetic rubber, rubber we	ear of rubber); spornik s	eatey. Moscow,
of rubberized were subjected A linear relation	The effect of pressure, deformaterials was studied. Single it to abrasion on a newly development of the conship was shown to exist bestion cycles required for the course, contact area (and the restablished at which a rapid classical effects.)	e- or double-sided rubbe loped tester (see p. 238 i tween pressure (0.3-5 kg destruction of material; b aloted radius of the samp	n this same collection). (cm ²) and N, the set a number of critical le holder) and defor-
Card 1/2			Stephanica Styles and

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ACCESSION NR: AT5004101

complete destruction of the material is rapidly attained. The study of the N-pressure relationship at constant contact area or constant deformation therefore requires preliminary measurements under variable conditions to establish possibly existing critical conditions. The study of abraded materials indicated the existence of various abrasion mechanisms, including pure abrasion, tearing-out and breaking-out of parts, and the adhesive failure of the rubber layer. Good adhesion of the latter to the textile base is particularly required at high (3-5 kg/cm²) pressures. Orig. art. has: 6 figures and 1 table.

ASSOCIATION: None

SUBMITTED: 05Aug 64

ENCL: 00

SUB CODE: MT

NR REF SOV: 000

OTHER: 000

Card 2/2

L 40561-65 EWT(d)/EWT(m)/EPF(c)/EWP(c)/EWP(v)/EWP(j)/T/EWP(k)/EMP(1) Pc-4/Pf-4/Pr-4 GS/RM ACCESSION NR: AT5004108 \$/0000/64/000/000/0238/0241 AUTHOR: Patrikeyev, G. A.; Antchak, V. K.; Levinshteyn, M. S.; Khrenov, TITLE: New method and apparatus for determining the abrasive wear resistance of rubberized fabrics SOURCE: Nauchno-tekhnicheskoye soveshchaniye po friktsionnomu iznosu rezin. Moscow, 1961. Friktsionnyy iznos rezin (Frictional wear of rubber); sbornik statey. Moscow, Izd-vo Khimiya, 1964, 238-241 TOPIC TAGS: rubber wear, frictional wear, rubber abrasion, abrasion tester, rubberized fabric ABSTRACT: An apparatus has been developed for testing the abrasive wear of rubberized fabrics at a selected sample curvature under stress and at selected loads. Exchangeable sample holders of 3-32 mm radius determine the desired curvature. The movable carriage (6 in Fig. 1 of the Enclosure) is covered with an exchangeable abrasive material and driven at speeds corresponding to 8-130 cycles/min and a maximum velocity of 0.2m/sec. Pressures of 0.1-5 kg/cm2 are applied and the contact area changes from 0.2 to 1 cm2. The wear resistance of the example is defined as Card 1/4 2

L 40561-65

ACCESSION NR: AT5004108

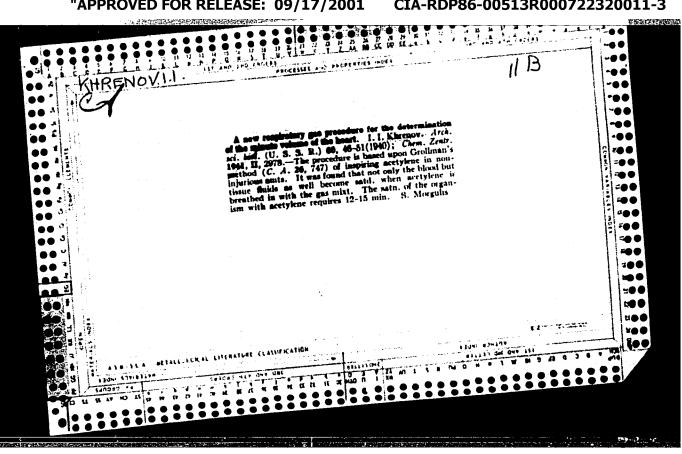
the number of cycles or as the length of the friction path required for the total destruction of the rubber layer, which is determined visually. "The authors acknowledge the assistance of P. L. Myagkov, T. M. Lebedev and L.I. Kolodyazhnyy in developing the apparatus and testing methods." Orig. art. has: 4 figures.

ASSOCIATION: None

SUBMITTED: 05Aug64

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722320011-3 C-2014年新型的调制性国际共享的高级超过,更数据的现在。 * Advisora

KHRENOV, I. I.

Oct 48

USSR/Hedicine - Dogs

Medicine - Blood Circulation

"Effects of the Dynamics of Blood Circulation on the Growth of Dogs," G. S. Kislitsyna, I. I. Khrenov, 4 pp

"Dok Ak Nauk SSSR", Vol LXII, No L

Presents results of observations on six dogs (one male and five female) for first 20 months of their lives. Tables give variations in respiratory exchange and blood circulation according to growth, relationship between blood circulation, respiratory exchange, and weight, and the influence of age on intensity of blood circulation, respiratory exchange, and comparative capacity of the heart. Submitted by Acad L. A. Orbeli, 17 Jul 48.

PA 33/49 T66

CIA-RDP86-00513R000722320011-3" APPROVED FOR RELEASE: 09/17/2001

Q , USSR : Farm Animals. COUNTRY 1959, No. 25790 CATEGORY cattle. , RZhBiol., No. 6, ABS . JOUR. : Khrenov, I. I. The Characteristics of Metabolism and Some AUTHOR : AS USBR. Vegetative Reactions in Cows of Various Ner-TEST. : V sb.: Vopr. fiziol. s.-kh. zhivotnykh. M.-L.,
AN SSSR, 1957, 99-110
: For the experiments 7 cows which were divided TITLE onid. PUB. into three nervous system types on the basis of the free and stall-restricted motor-alimen-ABSTRACT tary method, were used: the weak nervous system type, strong unbalanced type, and strong well balanced type. The intensity levels of the gas-energy metabolism (with the aid of the group method), blood circulation and pulmonary respiration were determined for these cows. The animals were studied throughout their en-1/3 CARD: 14

. USSR COUNTRY CATEGORY 1959, No. : RZhBiol., No. ABS. JOUR. AUTHOR rast. TITLE : tire production cycle. When a partial dietary ORIG. PUB. deficiency existed (during the time of the deliciency existed (during the time of the cows' stall period), a marked inhibition in the intensity of the thermal metabolism and other functions was observed; when the diet was ample, gas metabolism, blood circulation and pulmonary respiration increased sharply. ABSTRACT The cows of the strong motor and well balanced nervous activity type proved most adaptable to conditions of insufficient and ample nutrition. Also, they provided better returns of feed 2/3 Card:

KHRENOV

0-2

USSR/Farm Amirals - Cathle

Abs Jour

: Rer Zhur - Biol., No 1, 1959, 2664

Author

: Karenov, I.I.

Inst

: AS USBR

Title

: Response of Cows to Level of Feeding.

: V sh.: Vopr. fixiol. s.-kh. zhivotnykh, M.-L., AN SSER,

Orig Pub

1957, 157-167.

Abstract

: Five cows of the East Friedran breed (Live weight 500-750 kg; milk yield 4,500 to 6,500 kg) were used to determine, by means of complex massage technique, a number of indexes of gaseous and energy metabolism, blood circulation and pulmonary respiration at differing levels of feeding. A low level of the gaseous and energy netabolism corresponded to the lowest feeding level. The metabolism

Card 1/2

USSR/Human and Animal Physiology. The Nervous System

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Abs Jour : Ref Zhur - Biol., No 14, 1958, No 65755

Author : Khrenov I.I.

Inst Title

: The Food Reflex in Cows

Orig Pub: Fiziol. zh. SSSR, 1957, 43, No 9, 894-900

Abstract: By means of a complex method, it was established that ten minutes after a single ingestion of food by cows, there was an increase in CO₂ elimination, pulse frequency and minute and systolic cardiac volume. Respiration was more rapid and deeper. The onset of eating was accompanied by a rapid rise in the respiratory coefficient above unity. At the termination of eating the respiratory coefficient began to fall slowly. The changes in respiratory coefficient are considered as a

conditioned-reflex phenomenon. -- T.G. Veteleva

Card : 1/1

1. Laboratoriya fiziologii sel'skokhosyaystvennykh zhivotnykh i Laboratoriya eksperimental'noy genetiki vusshey nervnoy deyatel'nosti Instituta fiziologii im. I.P.Pavlova AN SSSR, Leningrad.

Gases of the paunch. Nauch. soob. Inst. fiziol. AN SSSR no.1:194195 '59. (MIRA 14:10) 1. Laboratoriya fiziologii sel'skokhozyaystvennykh zhivotnykh (zav. I.A.Baryshnikov) Institut fiziologii imeni Pavlova AN SSSR. (RUMEN) (RESPIRATION)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722320011-3"

SEVORTSOVA, A.A.; KHRENOV, I.I.

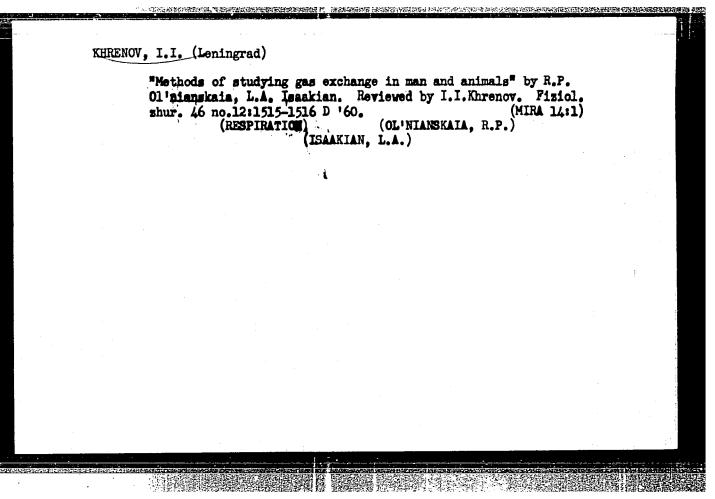
Some features of basic metabolism and the specific dynamic effect

of feed in cattle. Trudy Inst. fixiol. 8:404-410 59.

(MIRA 13:5)

1. Laboratoriya fiziologii sel skokhosyastvennykh zhivotnykh (zaveduyushchiy I.A. Baryshnikov) i Mauchno-opytnaya stantsiya (direktor I.F. Shulshenko) Instituta fiziologii im. I.P. Pavlova AN SSSR.

(METABOLISM) (CONDITIONED RESPONSE)



SKVORTSOVA, Alevtina Alekseyevna; KHRENOV, Ivan Ivanovich; BARYSHNIKOV, I.A., prof., otv. red.; NATAROVA, N.V., red. izd-va; AREF'YEVA, G.P., tekhn. red.

[Technique for studying blood circulation, gas and energy metabolism, and pulmonary respiration in farm animals; a practical guide] Tekhnika issledovaniia krovoobrashcheniia, gazoenergeticheskogo obmena i legochnogo dykhaniia u sel'sko-khoziaistvennykh zhivotnykh; prakticheskoe rukovodstvo. Moskva, Izd-vo Akad.nauk SSSR, 1961. 82 p. (MIRA 15:1) (VETERINARY PHYSIOLOGY) (BLOOD—CIRCULATION) (RESPIRATION)

KHRENOV, I.I.

Effect of chronic stimulation of the afferent nerves of mammary glands on gas exchange in lactating goats. Fiziel. zhur. 50 no.3: 314-318 Mr 164.

! Laboratoriya fiziologii i biokhimii laktatsii instituta fiziologii imeni I.P. Pavlova AN SSSR, Leningrad.

ACC NRI AP6018003.

SOURCE CODE: UR/0413/66/000/010/0115/0116

INVENTOR: Lytov, A. N.; Marinich, I. L.; Khrenov, I. I.

ORG: None

TITLE: A pressure reducer. Class 47, No. 181933

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 10, 1966,

115-116

TOPIC TAGS: pressure regulator, valve, pneumatic device

ABSTRACT: This Author's Certificate introduces a pressure reducer consisting of a housing, valves and sensing elements. Low torque is achieved on the screw which regulates the output pressure of the reducer by locating the reduction stages in a single housing. These stages are made in the form of valves connected by rods to sensing elements with different areas. The reduced output pressure is released from the first stage which has the larger sensing element area. Pressure reduced by the first stage is fed through a system of holes into the second stage which has the smaller sensing element. The pressure being reduced by the second stage is fed into an airtight cavity in the first stage sensing element and the output pressure is controlled by rotating the second stage regulating screw.

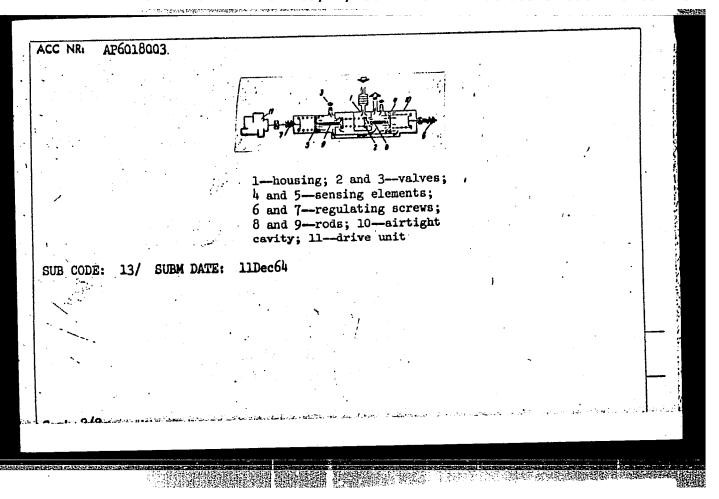
Card 1/2

UDC: 621.646.4;62.83

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CIA-RDP86-00513R000722320011-3



ACC NR: AP6018002

SOURCE CODE: UR/0413/66/000/010/0115/0115

INVENTOR: Lytov, A. N.; Khrenov, I. I.; Marinich, I. L.

ORG: None

TITLE: A pressure reducer. Class 47, No. 181932

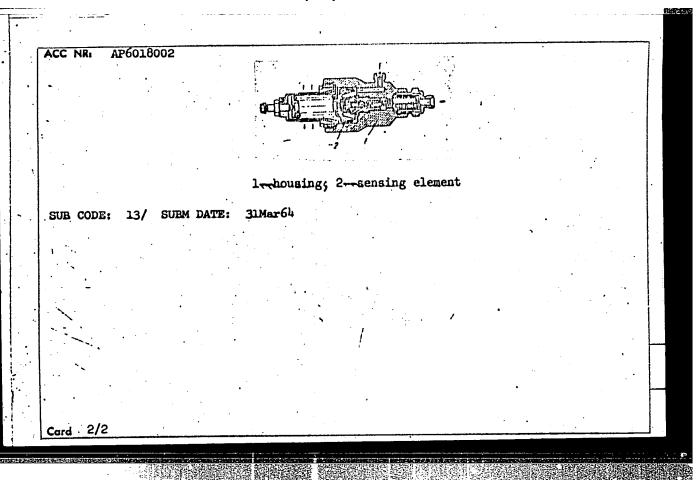
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 10, 1966, 115

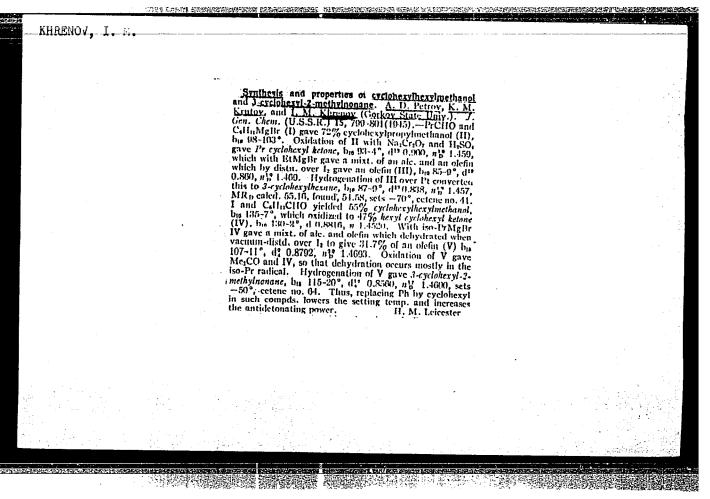
TOPIC TAGS: pressure regulator, valve, pneumatic device

ABSTRACT: This Author's Certificate introduces a pressure reducer consisting of a housing with reducing and safety valves, control spring and sensing element. The sensing element is made in the form of a piston. Provision is made for eliminating sensing element jamming during misalignment of its axis relative to that of the housing, improving sensitivity to pressure variation, and increasing the service life of the pressure reducer. The sensing element is made in the form of a piston with a spherical guide surface whose diameter is equal to that of the sensing element.

Cord 1/2

UDC: 621.646.45

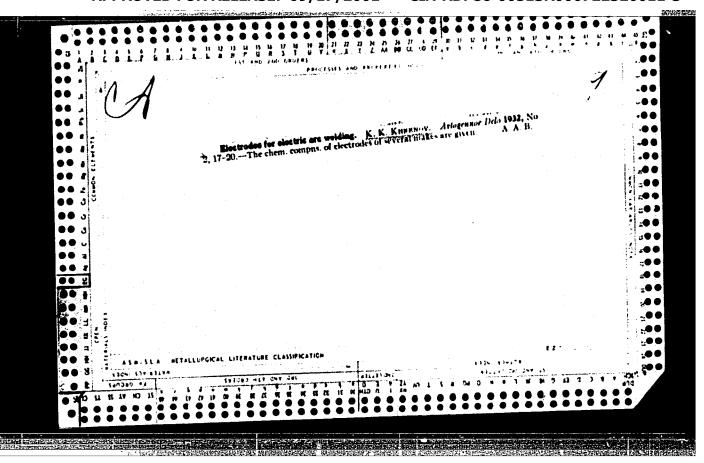


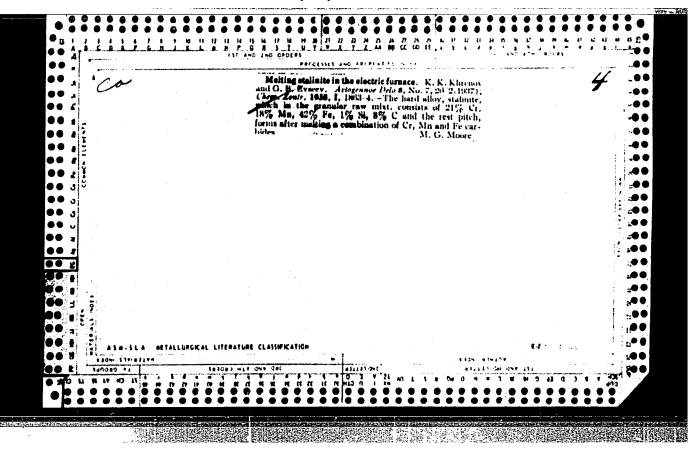


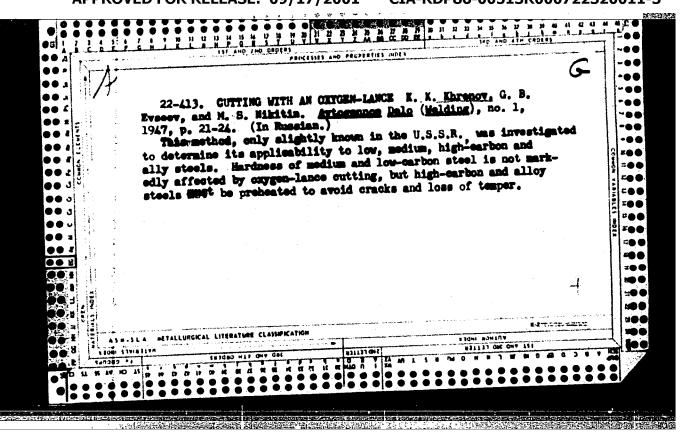
BYSTROV, Il'ya Nikolayevich; KHREMOV, Ivan Tegorovich; SAYAHOV, Vissarion, red.; ROZAHOV, M.D., red.; LEVOHEVSKAYA, L.G., tekhn.red.

[Labor's finest; work and life of a group in the Kirov (formerly Putilov) Factory] Gwardiia truda; trudy i dni kollektiva Kirovskogo (byvshego Putilovskogo) savoda Lanizdat. 1959. 131 p. (MIRA 12:6)

(Leningrad -- Labor and laboring classes)







KHRENOV, K.K.

Hikelai Gavrilevich Slavianev, 1854-1897. Vest.mach.27 me.12:
1-9 D '47. (MLRA 9:4)

1.Deystvitel'myy chlen AM USSR.

(Slavianev, Fikelai Gavrilevich, 1854-1897)

USSE/Engineering
Welding, Electric
Cutting, Underwater

"Underwater Electric Welding and Cutting," K. K.
Khrenov, Active Mem, Acad Sci, Ukrainian SSR, 10 pp

"Elektrichestvo" No 1

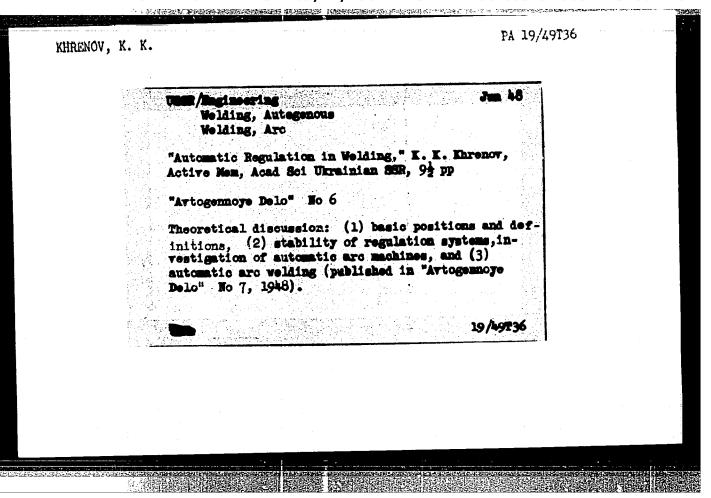
Discusses results of tests and research in Soviet
Union to determine best methods for underwater
welding and outting. Shows how this technology has
led to new method of repairing vessels—repairing of
parts below the water line without putting the
vessel in dry dock; development of this new field
of technology, and its present state.

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KHRKNOV, K.K.

Particular case of an electric arc discharge. Dep.AN URSR no.3: 58-59 48. (MLRA 9:9)

1.Diyeniy chlen AN URSR. 2.Institut elektresvaryuvannya imeni B.O.Patena Akademii nauk Ukraina kei ESR. (Electremetallurgy)



KHRENOV, K. K.

Author: Khrenov. K. K.

Title: New method employed in the welding technique. (Novosti svarochnoi tekhniki).

(as pages.

City: Kiev.

Publisher:

Publications Printing House of the Academy of Sciences of the Ukrainian S.S.R.

Date: 1949

Available: Library of Congress

Source: Monthly List of Russian Accessions, Vol. 3, No. 2, Page 98

KHRENOV, K. K.

Elektricheskaia svarochnaia duga. Kiev, Mashgiz, 1949. 203 p. illus., ports. Bibliography: p. (202)

Electric welding arc.

DLC: TK4660.K42

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

KHRENOV, K. K.

Khrenov, K. K. Automatic electric arc welding Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1949.

273 p. (50-55908) TK4660.K4

KHRENOV, K. K. and S. T. NAZAROFF

Avtomaticheskaia dugovaia elektrosvarka. Moskva, 1949. 273 p. illus. Bibliography: p. (271)

Automatic electric arc welding.

DLC: TK4660.K4

SO: Manufacturing and mechanical engineering in the Soviet Union, Library of Congress, 1953.

KHRENOV, K.K.

Face gas welding. Dop. AM URSR no.2:53-55 '49. (MLRA 9:9)

1. Diveniy chlen AM URSE. 2. Institut budivel'noi mekhaniki AN URSE.

(Gas welding and cutting)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722320011-3"

KHRENOV, K. K.

25766

Temperatura svarochnov dvgi. Avtogen, delo 1949, No. 8, s. 14-15. Shadrin, A.B. Avtomaticheskie ustanovki dlya sverki kotlov parovozol serii. L. Sm. 25929.

8. Mashinovedenie. Mashinustroenie. Priborostrdenie (Spetsial'noe mashindstroenie - sm. po sootvestvuywsh im cpets. Rasde

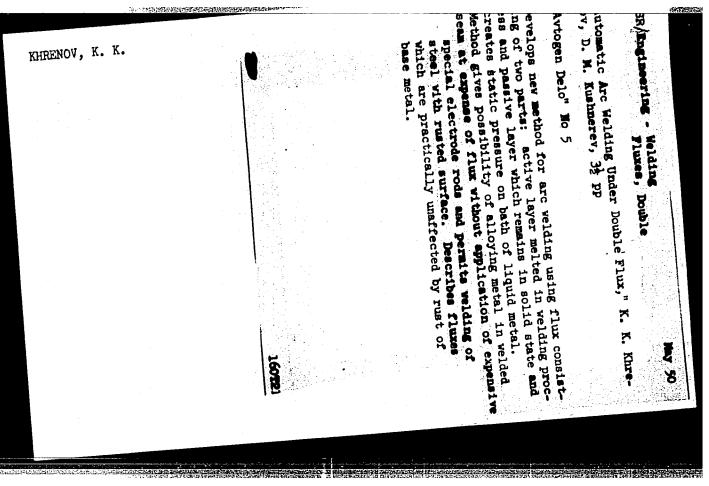
A. Obshchie boprosy

SO: Letopis' No. 34

KITSAK, N.A., inzhener; KHUENOV, K.K., redaktor; BARABASH, M., redaktor; LINBERG, T., tekhnicheskiy redaktor.

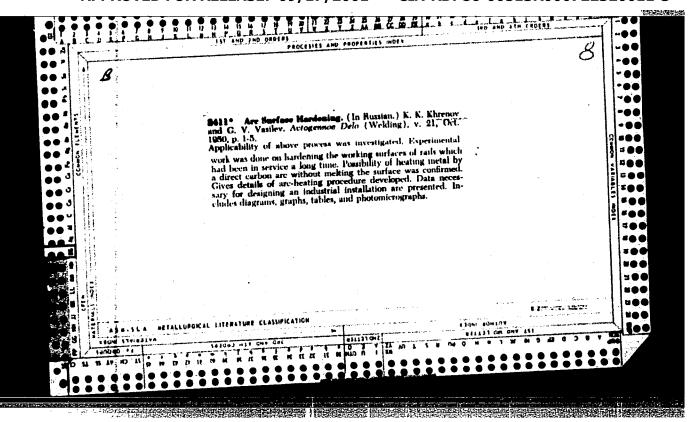
[Underwater metal cutting by welding and clearing of river beds]
Reska metallov pod vodoi i raschistka rusel. Pod red. K.K.Khrenova.
Kiev, Gos. isd-vo tekhn. lit-ry Ukrainy, 1950. 50 p. (MLRA 8:2)

1. Deystvitel nyy chien AM USSR (for Ehrenov).
(Underwater welding and cutting) (Diving, Submarine)

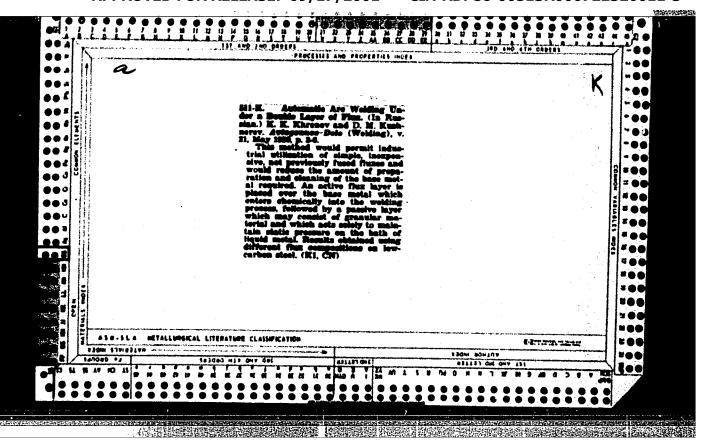


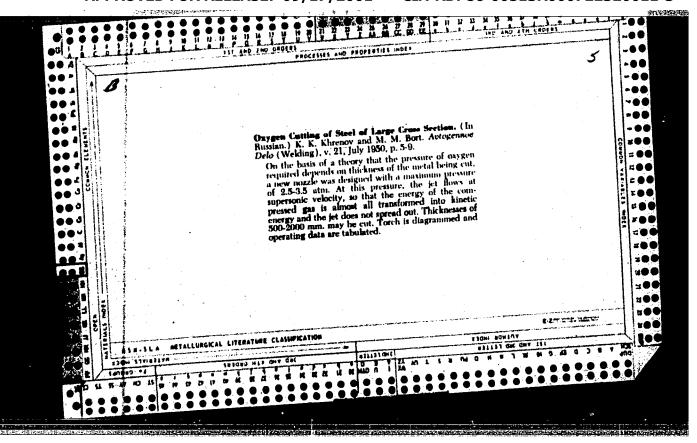
KHRENOV,	к. к.				PA 1	.67T5	9		
RHALMOV	167159		cutting in longitudinal direction up to 6 m, crosswise up to 2 m, and along circumference of any radius up to 1 m. Equipment constructed in welding lab of Kiev Polytech Inst at request of a machine-building plant.	UBGR/Netals - Cutting (Contd) Jul 50	Describes cutting blowpipe R-100 for cutting, 500-2,000 mm thicknesses. Gives design and operational data. Cutter has five changeable sets of cutting nozzles, preheaters, and injectors for cutting various thicknesses of steel. Authors developed automatic mount which permits		"Oxygen Cutting of Steel of Great Thickness," K. K. Khrenov, Active Mem, Acad Sci Ukrainian SSR, M. M. Bort, Engr, Kiev Ord of Lenin Poly- tech Inst	UBSR/Metals - Cutting	

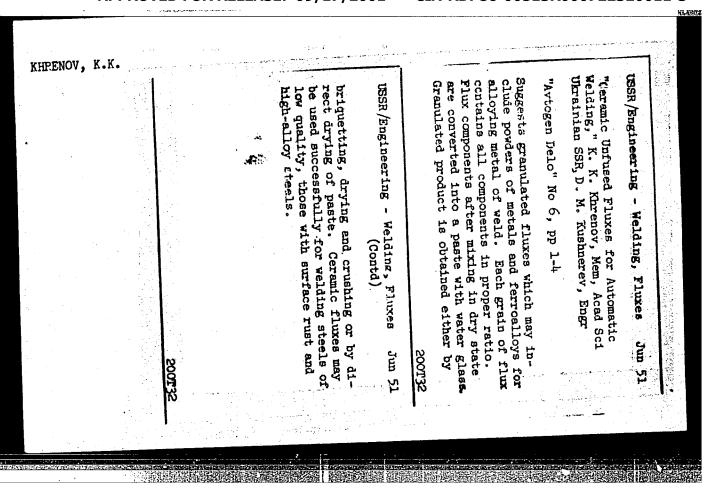
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KHRENOV,	K. K.		*			
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		Ť	Heat	Experiments to heat carbon are in processibility of the carbon are in processible of the carbon are along transversal alternate efficient, convenier pensive than he curr	Po n	
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		laboratory installation and	143	Avvogen Delo" No 10, pp 1-5 Experiments to heat a metal with a directarbon arc in process of surface harden ends. Possibility of melting a metal with a directarbon arc along surface to be heate transversal alternating magnetic field. efficient, convenient in regulation, and pensive than he currents or overtices.	UMER/Metals - Eest Treetse "Arc Surface Hardening," K Acad Sci Ukrainian SSR, G. Ord of Lenin Polytech Inst	
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		5		a direct hardening letal was heated was heated on on, and l	H.G.	
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			I Lame	1-5 tal with a direct action D surface hardening of rail ting a metal was eliminat ace to be heated with aid agnetic field. Method is regulation, and less ex-	Khrenov, Active	
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[1]	ט		167182 Oct 50	en Delo" No 10, pp 1-5 ments to heat a metal with a direct action DC arc in process of surface hardening of rail Possibility of melting a metal was eliminateding arc along surface to be heated with aid of resal alternating magnetic field. Method is int, convenient in regulation, and less exthan he currents or overetime.		
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	ent age a personal angeles de la desta de la desta de la desta de la dela de la dela de la dela del de la dela	MORONEMAN COMPANY NAME & DECT.	STANDARD OF STANDARD STANDARDS	rang ang ang magana ang kanaman ang maganan ang maganahan magana maganahan maganahan maganahan maganahan magan Maganahan	te China i Samaili ann 1960 a tha ann an Aireann an Samaili agus a Thaile an 1961 a tha 1961 a tha 1961 a thai Ta China i Samaili ann 1960 a thairt an China an China an China an Taoin an Taoin an China an China an China a	name and south



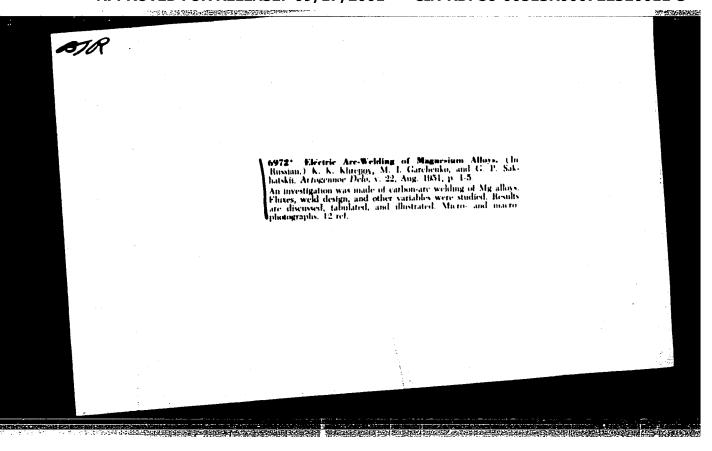
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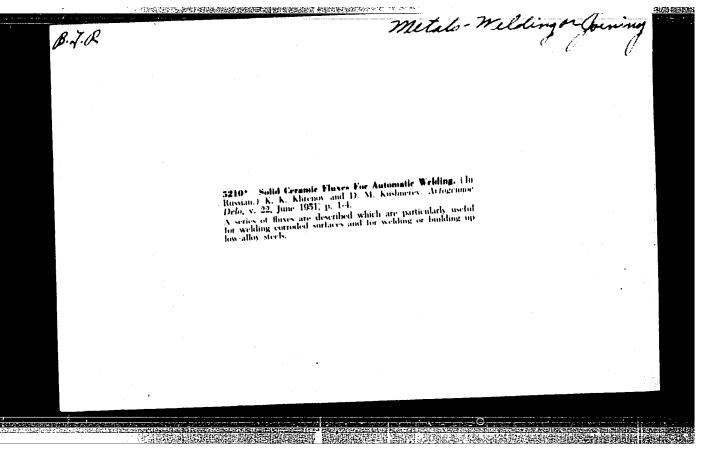






USSR/Fingineering - Welding, Magnesium Aug 51 "Electric-Arc Welding of Magnesium Alloys," K. K. Khrenov, Mem, Aced Sci Ukrainian SSR, Docent M. M. Gapchenko, Gand Tech Sci, G. P. Sakhatskiy, Engr "Avtogen Delo" No 8, pp 1-5 Investigated welding methods for Mg alloys of Mai type, containing 1.3-2.5% Am and small amounts of Al, Zn, Fe, Si and others. Out of 10 flux systems investigated best results were ob- tained from fluxes contg considerable aut of fluorides of alkali metals. Mech properties of velded joints are lower than those of base metal USSR/Engineering - Welding, Mag- to improve noticeably mech properties. Macro- and microstructure of welded joints showed satisfactory weldshilty of metal. Fabulates conditions of dc welding, using carbon electrode. 200747		· できたには対ななではない。これまない日本の	Total Comments of Comments and Comments and Comments of Comments o	
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lding of Magnesium Alloys," d Sci Ukrainian SSR, Docent lech Sci, G. P. Sakhatskiy, o 8, pp 1-5 ding methods for Mg alloys of ning 1.3-2.5% Mn and small n, Fe, Si and others. Out of all metals. Mech properties e lower than those of base if noticeably mech properties. noticeably mech properties. incrostructure of welded joint of weldability of metals sfactory weldability of metals onditions of dc welding, usitarde.	VULTUAL		Hog Hog Tal	SSR/Tag Slectri hrenov apcheni Avtogei nvesti AI typ mounts Tux sy ained Tuorid
- Welding, Nagmesium A. Iding of Magmesium Alloys," ad Sci Ukrainian SSR, Docent lech Sci, G. P. Sakhatskiy, o 8, pp 1-5 ding methods for Mg alloys of ning 1.3-2.5% Mn and small n, Fe, Si and others. Out of estigated best results were es contg considerable amt of all metals. Mech properties e lower than those of base in nof welding, Mag- nesium (Contd) nof welded specimens fail noticeably mech properties. incrostructure of welded joi afactory weldability of meta nditions of dc welding, usi trode. 20 20			R/Engi	gineeri ic-Arc , Mem, ko, Can n Delo gated e, con of Al stems from f les of
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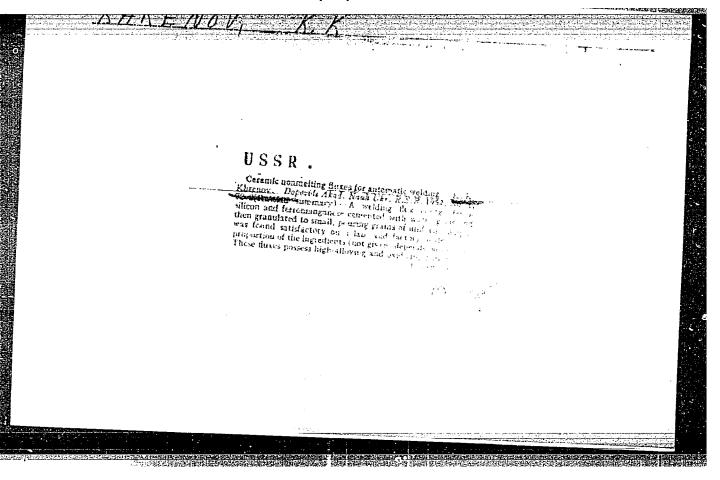
KHREHOV, K. K.

Technology

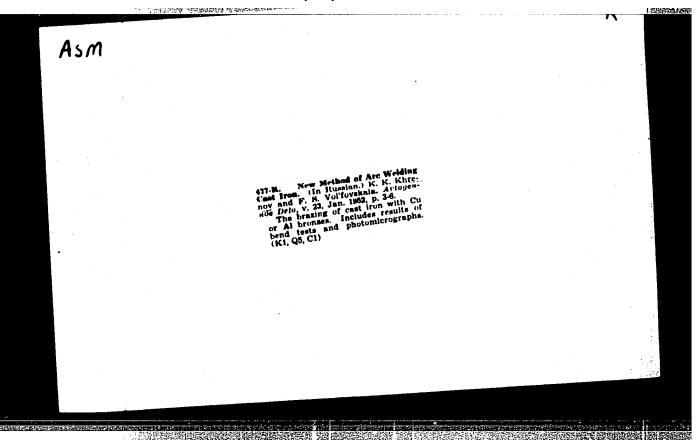
Welding, cutting and soldering of metals, Kiev, Mashgiz, 1952

Menthly List of Russian Accessions. Library of Congress, June 1953, Uncl.

KHITENOV	, K. K.	
	USSR/Engineering - Welding, Methods Jan 52 "New Method for Arc Welding of Cast Iron," K.K. Khrenov, Act Mem Acad Sci Ukrainian SSR, F.S. Vol'fovskaya, Engr "Avtogen Delo" No 1, pp 3-6 Describes method of carbon arc welding without direct action of arc on base metal. Discusses expts for using various welding rods, including with formation of steel working surface, methods for testing welded joints, etc. Advantages of for testing welded joints, etc. Advantages of in welded zone of cast iron, absence of hard inclusions in weld and high strength of joint.	Tigir.



KHRENCV, K. F	Investigates resistance welding of sinstruments, feeding discharge of cointo welding transformer. Special of with wolfram inserts were experiment Gives elec diagram of installation emechanism for maintaining constance plied to electrodes. Investigates condenser welding with the aid of electrodes were and may successfully substitute for now in use.	USSR/Metallurgy - Welding, Methods "Condenser Welding of the Parts of "Instruments," K.K. Khrenov, Act Me "SSR, V.E. Moravskiy, Engr, Kiev Po
	experimentally developed. Special copper electrodes experimentally developed. Saliation and describes constance of forces ap- estigates also process of estigates also proce	arts of Electric Mossuring Act Mes, Acad Sci Undian Kiev Polytech Inst



KHRENOV, K. K., MORAVSKIY, V. YE.

Measuring Instruments

Condenser welding of parts for electrical measuring instruments. Avtog. delo 23, no. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November, 1952 1995, Uncl.

KHRENOV, K.K., redaktor; CHUMACHENKO, T., redaktor; GOLOVCHENKO, G., teknnicheskiy redaktor.

[New methods of welding and cutting metals] Novye sposoby svarki i reski metallov. Kiev, Gos. isd-vo tekhn. lit-ry USSR, 1953. 246 p.

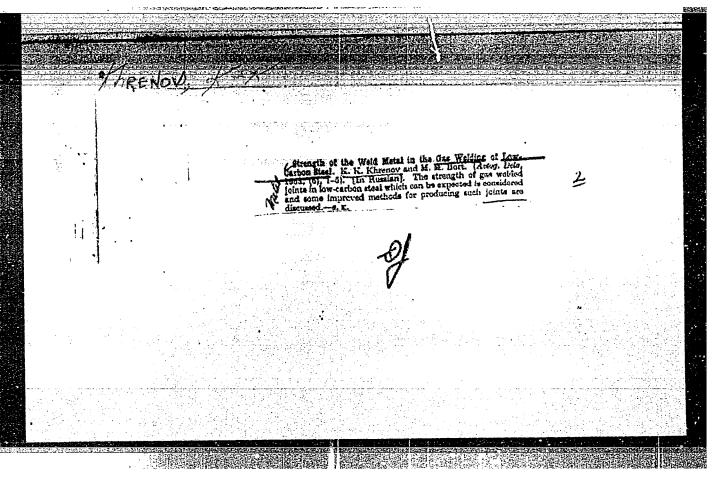
1. Deystvitel'nyy chlen AM Ukrainskoy SSR. (Welding) (Metal cutting)

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KHRENOV. K .; VOL FOVSKAVIA, F.

"New Method for Arc Welding of Steel", Tr. from the Russian, P. 33, (RATSIONALIZATSIIA, Vol. 3, No. 10/11, Oct./Nov. 1953, Sofiya, Bulgaria)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.



KHRENOV, K.K., deystwytel'nyy chlen; BORT, M.M., kandidat tekhnicheskikh nauk.

Strength of metal welds in gas welding of low carbon steel. Avtog. delo
(MLRA 6:5)

1. Akademiya Nauk USSR (for Khrenov). 2. Kiyevskiy politekhnicheskiy institut. (Oxyacetylene welding and cutting) (Strength of materials)

SLAVYANOV, Bikolay Gavrilovich; KHRENOV, K.K., akademik; NAZAROV, S.T., kandidat tekhnicheskikh nang; MOLAL, B.I., tekhnicheskiy redaktor [Electric metal casting] Elektrichesknya otlivka metallov. Moskva, Gos. nauchno-tekhn. ind-ve mashinostroit. lit-ry, 1954. 92 p. (Younding) (Electrometallurgy) (MIRA 8:3)

KHRENDY, K.K.; KUSHNEREV, D.M.; AFONINA, G., redaktor; VUYEK, M., tekhredaktor.

[Ceramic fluxes for automatic arc welding] Keramicheskie fliusy dlia avtomaticheskoi dugovoi svarki. Kiev, Gos.izd-vo tekhn. lit-ry, USSR, 1954. 106 p. (MLRA 8:9)

(Electric welding)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722320011-3"

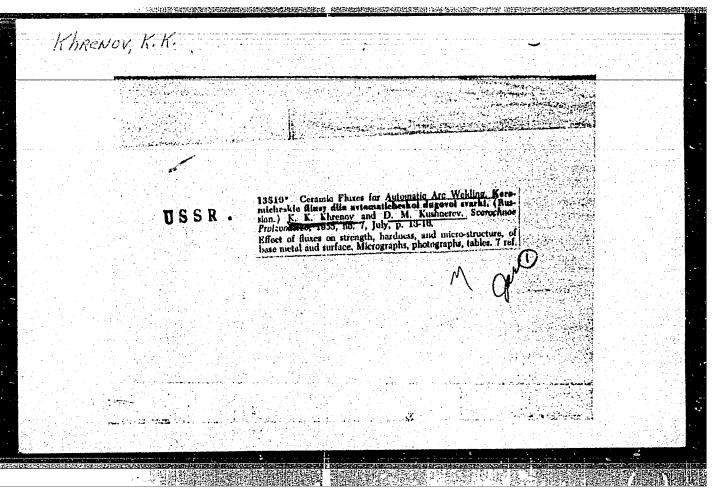
KHRENOV, K. K.	FD 263
USSR/Scientific Organization	г у 20,3
Card 1/1	
Author : Khrenov, K. K., Corresponding Member (1), Member (2)	
Title : Contribution of Ukrainian scientists in the development of Soviet science and engineering	•
Periodical: Iz. Ak Nauk SSSR, OTN, 1, 3-13, Jan 1954	
Abstract : Gives type of research engaged in and a brief history of the eleventh independent scientific establishments that are in the Division of	
Technical Sciences of the Academy of Sciences of the Ukrainian SS Gives names of about 100 affiliated scientist-engineers and their fields of work.	R
Institution: (1) Academy of Sciences of the U.S.S.R., (2) Academy of Sciences Ukrainian SSR	of the
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KHRENOV, Konstantin Konstantinovich; CREBEL NIK, P.G., kend.tekhn.nauk, retsenzent; FURER, P.Ya., red.; RUDENSKIY, Ya.V., tekhn.red.

[Welding, cutting, and soldering of metals] Svarka, reska i paika metallov. Isd.2., perer. i dop. Kiev, Gos.nauchno-tekhn. isd-vo mashinostroit.lit-ry, 1955. 411 p. (MIRA 12:8) (Welding) (Metal cutting)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722320011-3"

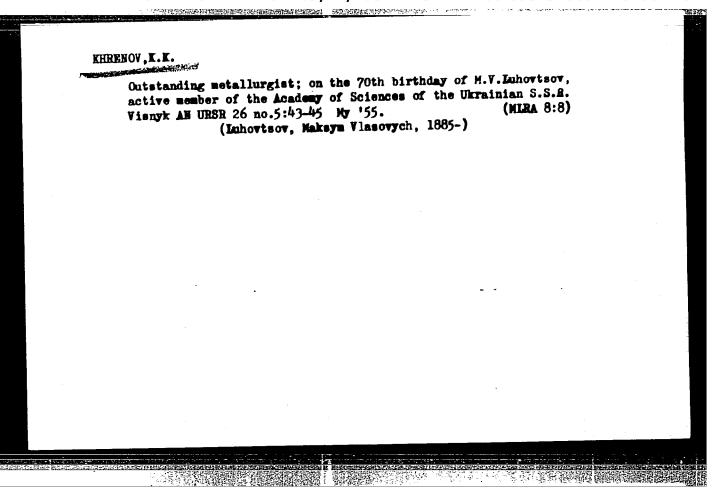
USSR. Johnson Welding of Alaminan and Copper Conductors. (Russian) K. K. Mircope, and G. P. Schutchil. Protected 20-2185. Red. Apr. p. 1-4. Cold welding instruments and techniques; strength properties of cold welds. Photographs, diagrams, table.		是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	FRA
USSR. 10989. Cold Welding of Alaminans and Copper Conductors. Kholodnaia avarka ultiminate with 1 mednykh pravodov. (Russian.) K. K. Khrenov and G. P. Sakhatskii. Sourochnov Protzoodtov. 1955. 16. 4. Apr., p. 1-4. Cold welding instruments and techniques; strength properties of cold welds. Photographs, diagrans, table.	KHRENOV	K.K.	
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10989* Cold Welding of Aluminum and Copper Conductors. Kholodnala svarka alluminteryth 1 mednyth provodov. (Russian.) K. K. Khrenov and G. P. Sakhatskii. Scarochnov Prolzeodstvo. 1905. 16. 4. Apr., p. 1-4. Cold welding instruments and techniques; strength properties of cold welds. Photographs, diagrams, table.	Property of the Control of the Contr	and the first of the state of the second	
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10989* Cold Welding of Aluminum and Copper Conductors. Kholodnala svarka alluminteryth 1 mednyth provodov. (Russian.) K. K. Khrenov and G. P. Sakhatskii. Scarochnov Prolzeodstvo. 1905. 16. 4. Apr., p. 1-4. Cold welding instruments and techniques; strength properties of cold welds. Photographs, diagrams, table.		여러 가지 않는데 그 이렇게 쪼꾸다면 그리는 이 이번 모든 그 아니는데 이번 모든데 되었다.	
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10989* Cold Welding of Aluminum and Copper Conductors. Kholodnala svärka allumintevykh 1 mednykh provodov. (Russian.) K. K. Khrenov and G. P. Sakhatskii. Scarochnov Prolzvodstvo. 1955. 16. 4. Apr., p. 1-4. Cold welding instruments and techniques; strength properties of cold welds, Photographs, diagrams, table.		이 방송 : 이 등 항송 : 후 후 사용 하시다는 그 이 아이는 이 그리고 있습니다. 그 것은	
10989* Cold Welding of Aluminum and Copper Conductors. Kholodnala svarka alluminteryth 1 mednyth provodov. (Russian.) K. K. Khrenov and G. P. Sakhatskii. Scarochnov Prolzeodstvo. 1905. 16. 4. Apr., p. 1-4. Cold welding instruments and techniques; strength properties of cold welds. Photographs, diagrams, table.			
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Cold welding instruments and techniques; strength properties of cold welds. Photographs, diagrams, table.		Prolavoditvo, 1500, 10. 4, Apr., p. 1-4.	
		Cold welding instruments and techniques; strength properties	
		of Cold Wells, Photographs, Chagrants, Tuber.	
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		그게 가득하다. 얼마면 존대 연극이 들리는 그리는 그리는 것이 그렇게 되었다.	18.54
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KHRENOV, K.K.; PAKULIN, D.I.

Journal "Automatic welding." Visnyk AN URSR 26 no.1:79-80 Ja 155.

(Welding-Periodicals)



Electric welding in Czechoslovskia Blektrozvariuvannia v Chekhoslovatsi Raspublitai. Eyiv, Dersh. vyd-vo tekhn. lit-ry URSE, 1956.

43 p. (Gzechoslovakia--Blectric welding)

AID P - 4870

Subject : USSR/Engineering

Card 1/1 Pub. 107-a - 4/14

Authors : Khrenov, K. K. and G. P. Sakhatskiy

Title : Shape of punch affecting the strength of the spot-joint

in the cold welding of aluminum.

Periodical: Svar. proizv., 4, 12-14, Ap 1956

Abstract : The authors present data of their research carried out

at the Academy of Sciences of the Urainian SSR and the Kiev Polytechnic Institute. They describe various punches for rectangular, round, profile and other configurations of the non-ferrous metal spots to be welded, and the results obtained. Three tables, 5 drawings, 2 photos.

2 Russian references (1949-53).

Institutions: Academy of Sciences of the Urainian SSR and the Kiev

Polytechnic Institute.

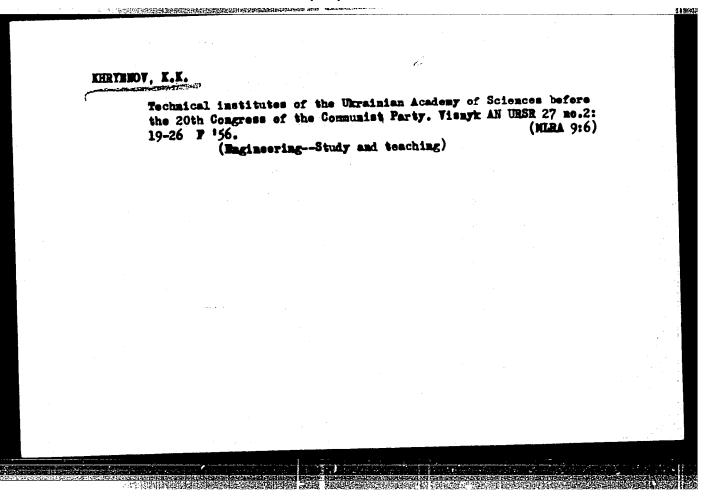
Submitted : No date

KHRETOV, K.

Cold-welding of metals. p. 19.

Vol. 5, no. 1, 1956 ZVARACSKY SEORNIK Bratislava, Czechoslovakia

Source: East European Accession List. Library of Congress Vol. 5, No. 8, August 1956



AMARINOVIKK PALLADIN, O.V., red.; SEMENENKO, M.P., akademik, red.; SHCHERBAN'. O.N., akademik, red.; GHEDENKO. B.V. [Hmiedenko, B.V.], akademik, red.; DELIMARSKIY, Yu.K. [Delimers'kyi, IU.K.], akademik, red.; KAVETSKIY.
R.Ye. [Kavets'kyi, R.IE.], akademik, red.; KHRENOV. K.K. [Enrienov,
K.K.], akademik, red.; KOROID, O.S., kand.ekon.nauk, red.; GUDZEMKO.
P.P. [Hudzenko, P.P.], kand.ist.nauk, red.; SHIKAN, V.L., red.

/ izd-va; RAKHLINA, N.P., tekhn.red.

[Development of science in the Ukraine during the past 40 years] Rozvytok hauky v Ukrains'kii: RSR za 40 rokiv. Kyiv. 1957. 529 p.

(MIRA 11:3) 1. Akademiya nauk URSR, Kiyev, (for Semenenko, Shcherben', Gnedenko, Delimerskiy, Kavetskiy, Khrenov) (Ukraine--Science)

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SUBJECT: YNRENOV, K.K.
SUBJECT: USSR/Welding

135-3-17/17

AUTHORS:

Khrenov, K.K., Academician, Bort, M.M., Candidate of Technical Sciences, and Kotvitskiy, A.D., Candidate of Technical Sciences.

TITLE:

On the Problem of Cutting Thick Sections by Low-Pressure Oxygen. (K voprosu o reske bol'shikh tolshchim kislorodom nizkogo davleniya).

PERIODICAL:

"Swarochnoye Proizvodstvo", 1957, #3, pp 30-31 (USSR)

ABSTRACT:

Critical review of the article "Investigation of Cutting thick steel sections by low-pressure oxygen" ("Issledovaniye razdelitel' noy rezki stali bol'shikh tolshchin kislorodom nizkogo davleniya" by S.C. Gusov, and O.Sh. Spektor (1).- "Trudy VNIIAvtogen, ed. III, Goskhimizdat, 1955.

The authors consider erroneous and contradictory the evaluation results given in the criticized work concerning the effect of oxygen pressure, the losses of oxygen depending on the various shapes of nozzle, the pressure existing inside the nozzle, and the way the nozzle shape affects the oxygen stream. "It is regretable that the authors made a considerable effort to study

Card 1/2

the staged cylindrical nozzles which are known to be of the

135-3-17/17

TITLE:

On the Problem of Cutting Thick Sections by Low-Pressure Oxygen. (K voprosu o rezke bol'shikh tolshchin kislorodom nizkogo davleniya).

least satisfactory nozzle design, but made no use of the correct calculation and production method of smooth nozzles with continuous expansion of bore and impactless stream of gas, and completely ignored the smoothly-narrowing nozzles which have considerably better gas-dynamic flow properties as compared to the simple cylindrical nozzles chosen by the authors as the best".

The article contains 3 references (two of them by the criticised authors, all Russian).

ASSOCIATION: Kiyev Polytechnical Institute (Kiyevskiy politekhnicheskiy institut)

PRESENTED BY: SUBMITTED:

AVAILABLE: At the Library of Congress.

Card 2/2

KHRENOV, KK.

21-5-18/26

AUTHORS: Khrenov, K.K., Member of the AN Ukrainian SSR, and Kushnerev

(Kushner'ov), D.M.

TITLE: A Machine for Granulating Ceramic Flux (Mashina dlya granu-

lirovaniya keramicheskogo flyusa)

PERIODICAL: Dopovidi Akademii Nauk Ukrains'koi RSR, 1957, Nr 5, pp. 499-

501 (USSR)

ABSTRACT: The authors describe a new machine, MTKP -4, designed by

them for granulating ceramic fluxes for automatic arc welding. The capacity of this machine is about 200 kg of fluxes per

hour. Its dimensions are: height - 1,300 mm; width - 570 mm; length - 1,420 mm. Its weight is 150 kg. It is driven by a 0.5-kW electric motor. The machine is reliable and simple to

operate.

The article contains 1 figure, 2 photos and 2 Slavic refer-

ences.

1971 PERMIT A ENTRY PARTY PARTY

ASSOCIATION: Institute of Electrical Engineering of the AN Ukrainian SSR

(Instytut elektrotekhniky AN URSR)

SUBMITTED: 12 February 1957 AVAILABLE: Library of Congress

Card 1/1

CIA-RDP86-00513R000722320011-3 "APPROVED FOR RELEASE: 09/17/2001

K HRENOV, K.K.

135-8-12/19

SUBJECT:

USSR/Welding

AUTHORS:

Mazel', A.G., Candidate of Technical Sciences, and Khrenov K.K.,

Junior Scientific Co-Worker.

TITLE:

Electrical Generator Characteristics for Welding in Carbon Dioxide. (Elektricheskiye kharakteristiki istochnika toka pri

swarke w uglekislom gase).

PERIODICAL:

"Swarochnoye Proizvodstvo", 1957, #8, pp 31-34 (USSR)

ABSTRACT:

The article presents the results of experimental studies of a process which has the advantage of low cost and high productiwity, but which is accompanied with splatter and porosity of weld metal. These drawbacks may be reduced considerably by using very short arcs. No common generator gives a stable short arc, and short circuits occur constantly when short arcs are obtained.

It was stated that the process is more stable with inverse polarity than with direct polarity. Welding with direct polarity and a falling outer generator characteristic was only possible with a long arc. The rigid outer characteristics

Card 1/2

nearly completely eliminated short circuits.

135-8-12/19

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP&6100513R000722320011-3 TITLE: ide. (Elektricheskiye kharakteristiki istochnika toka pri

svarke v uglekislom gaze)

The connection between porosity and the transfer of metal in the arc was studied. Increasing the length of the arc was accompanied with carbonization, burning-out of silicon and increased nitrogen and oxygen content in the weld metal (4). A rigid outer characteristic, under equal conditions resulted in lesser porosity than a falling characteristic, which is apparently due to more intense transfer of metal across the gap and to a more stable burning of the arc.

Welding machines "N(M-1000", or "NC-500" and others, can be adapted for rigid characteristics (the necessary changes are described).

The article contains 7 diagrams, 1 table, and 5 bibliographic references, 3 of which are Russian.

ASSOCIATION: "VNIIStroyneft"

PRESENTED BY:

SUBMITTED:

At the Library of Congress. AVAILABLE:

Card 2/2

KHRENOV, K.K.

135-9-12/24

Khrenov, K.K., Member of the Academy of Sciences, Ukrainian AUTHORS:

SSR, and Kushnerev, D.M., Candidate of Technical Sciences

TITLE:

A Mechanical Method of Granulating Ceramic Fluxes (Mekhanizi-

rovannyy sposob granulirovaniya keramicheskikh flyusov)

PERIODICAL:

"Swarochnoye Proizvodstvo", 1957, # 9, p 29-30 (USSR)

ABSTRACT:

The article illustrates and gives operating information on machine "MTKO -4" for granulating undried ceramic flux mass. This machine has a capacity of 200 kg/hr and consists basically of a rotating horizontal steel disk with tapered apertures, and resilient steel blades which are intermittently pressed down to the rotating disk. The soft flux mass which is fed unto the disk is, in this way, periodically pressed through the apertures in the disk, and the sharp upper edges of apertures cut off uniform pieces. The mass does neither liquify as it did in other experimental methods of granulating - nor get unduly dense or warm, for the pressure is applied for only a short time and raised again to press the next lot. The cutting edges of apertures are being continually sharpened with the progressing wear of the disk. It is stated that

Card 1/2

CIA-RDP86-00513R000722320011-3" APPROVED FOR RELEASE: 09/17/2001

A Mechanical Method of Granulating Ceramic Fluxes

135-9-12/24

up to now granulating of ceramic fluxes used for arc welding of special alloy steel constituted a bottleneck in the production of such fluxes. The described machine has already been tested. Additional information on it may be obtained at the Academy of Sciences, Ukrainian SSR, Kiyev. Engineer L.S.Zver'kov is mentioned in connection with design work on the machine. The article contains 1 sketch and 2 photographs.

AVAILABLE:

Library of Congress

Card 2/2

KHREOV, K.K., akademik; GURSKIY, P.I., inzh.

Cold welding of wires. Elek.sta. 28 no.10:68-72 '57. (MIRA 10:11)

(Blectric wire--Welding)

SOV-135-58-2-14/18

AUTHOR:

Khrenov, K. K., Journal Member of the AS UkrSSR

TITLE:

Letter to the Editor (Pis'mo v redaktsiyu)

PERIODICAL:

Svarochnoye proizvodstvo, 1958, Nr 2, p 46 (USSR)

ABSTRACT:

With reference to a previous article by Ye. V. Sokolov, published in Nr 11, 1957, of this periodical, entitled "Electrodes For Arc Welding and padding", the author presents general information on the production of electrodes

in the USSR.

Card 1/1 1. Arc welding--Electrodes 2. Electrodes--Production

CIA-RDP86-00513R000722320011-3" APPROVED FOR RELEASE: 09/17/2001

SOV-135-58-9-18/20

No. 1. Control of the second s

AUTHOR:

Khrenov, K.K., Academician, AS UkrSSR

TITLE:

An Interesting Book (Interesnaya kniga)

PERIODICAL:

Svarochnoye proizvodstvo, 1958, Nr 9, pp 44-45 (USSR)

ABSTRACT:

This is the critical review of a book by S.B. Aynbinder, entitled "Cold Welding of Metals", published in 1957 by the

Latvian Academy of Sciences.

1. Welding--USSR

Card 1/1

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722320011-3"

SOV/125-58-12-6/13

AUTHORS:

Khrenov, K.K., Gapchenko, M.N. and Kushnerev, D.M.

TITLE:

The Automatic Welding of Cold-Resistant Steel Under a Ceramic Flux (Avtomaticheskaya svarka khladostoykoy stali pod kera-

micheskim flyusom)

CARL PRODUCTION TO THE PRODUCTION OF THE STATE OF THE STA

PERIODICAL:

Avtomaticheskaya swarka, 1958, Nr 12, pp 50-56 (USSR)

ABSTRACT:

Information is given on the results of experiments carried out to determine the composition of a ceramic flux, the welding technology and the heat treatment ensuring satisfactory tightness and cold resistance of weld joints in "12N3" grade steel. It was stated that a satisfactory toughness of welds in a temperature of .160°C was obtained with the use of a "Sy-O8A" electrode (0.00% C, 0.38% Mn, 0.02% Si, 0.029% S, 0.015% P). A series of fluxes were tested, and the best results were obtained with the use of "KS-12N3" flux of the sults were obtained with the use of "KS-12N3" flux of the following composition: 52.9% marble, 20% fluorite, 15.0% titanium dioxide, 6.0% ferrotitanium, 0.8 ferromanganese, 1.2% ferrosilicon, 4.0% metallic nickel, 17 - 20% sodium silicate sclution of 1.3 - 22% density. The required cold resistance of weld joints was ensured by a special heat treatment (hardening or normalization with subsequent tempering).

Card 1/2

SOV/125-58-12-6/13

The Automatic Welding of Cold-Resistant Steel Under a Ceramic Flux

Normalization by local heating is recommended for industrial

There are 4 sets of microphotos, 1 graph, 2 tables and 9

Soviet references.

ASSOCIATION: Kiyevskiy politekhnicheskiy institut (Kiyev Polytechnical

Institute)

SUBMITTED:

July 12, 1958

Card 2/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722320011-3"

KHRENOV, K.K. [Khrienov, K.K.], akademik

G.I. Sukhomel, member of the Academy of Sciences of the Ukrainian
S.S.R. Vienyk.URSR 29 no.10:54-57 0 58. (MIRA 11:11)

1. AN USSR.

(Sukhomel, Georgii Iosifovich, 1888-)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722320011-3"

KOCHO, Velentin Stepanovich; KHAN, Boris Khononovich; KHRENOV, K.K., akademik, otv.red.; REMENNIK, T.K., red.izd-ve; MAZURIK, T.Ys., tekhn.red.

Nikolai Nikolaevich Dobrokhotov. Kiev, Izd-vo Akad.nauk USSR, 1959. 29 p. (NIRA 13:2)

1. AN USSR (for Khrenov).

(Dobrokhotov, Nikolai Nikolaevich, 1889-)

RADUNSKIY, Lev Davydovich; KHRKNOV, Konstantin Konstantinovich, akademik; retsenzent; OL'SHANSKIY, Nikolay Aleksandrovich; Ted.; LARIONOV, G. Ye., tekhn.red.

[Technical development of electric arc welding of metals in Bussia] Razvitie tekhniki elektricheskoi dugovoi svarki metallov v Rossii. Moskva, Gos.energ.izd-vo. 1959. 167 p. (MIRA 12:4)

1. AN USSR; chlen korrespondent AN SSSR (for Khrenov).

(Electric welding)

"APPROVED FOR RELEASE: 09/17/2001

25(1)

PHASE I BOOK EXPLOITATION

BOV / 3077

Khrenov, Konstantin Konstantinovich

Svarka, rezka i payka metallov (Welding, Cutting, Soldering, and Brazing of Metals) 2nd ed., rev. and enl. Kiyev, Mashgis, 1959. 411 p. 17,000 copies printed.

Reviewer: P.G. Grebel'nik, Candidate of Technical Sciences; Ed.: P. Ya. Furer; Tech. Ed.: Ya.V. Rudenskiy; Chief Ed. (Southern Division, Mashgiz): V.K. Serdyuk, Engineer.

PURPOSE: This book is intended for technical personnel and skilled workers. It may also be used by students in schools of higher technical education.

COVERAGE: The fundamentals of contemporary welding, soldering, brazing, and flamecutting processes are presented. A description is given of the more important electric and gas methods, including the machinery and equipment used. There is a brief review of less frequently used welding methods and welding processes for special steels, cast iron, nonferrous metals, and titenium and similar alloys.

Card 1/9

Welding, Cutting, So	•	8 0V/3077	
Questions of qual- soldering of nonfe also discussed no I Soviet.	ity control in welding are treate errous metals, and problems of u personalities are mentioned. The	ed. Hard facing, brazing, and aderwater metal cutting are ere are 32 references, all	
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	;	4	
	PART I. ELECTRIC-ARC WELDI	ng	
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4. weiging transfo	ormers	26 28	
5. Oscillators		. 35	

KULEBAKIN, V.S., akademik, otv.red.; BODMER, V.A., doktor tekhn.nauk, red.;

IVAKHNENKO, A.G., doktor tekhn.nauk; red.; ISHLINSKIY, A.Yu., ekademik, red.; KACHANOVA, W.A., kand.tekhn.nauk, red.; KUZNETSOV, P.I.,
doktor fiz.-matem.nauk, red.; KUKHTENKO, A.I., doktor tekhn.nauk, red.;

PETROV, B.N., red.; POPOV, Ye.P., doktor tekhn.nauk, red.; ULANOV,
G.M., doktor tekhn.nauk, red.; KHRENOV, K.K., akademik, red.; CHIMAYEV, P.I., kand.tekhn.nauk, red.; CHUMAKOV, N.M., kand.tekhn.nauk,
red.; KHUGLOV, G.V., tekhn.red.

[Invariancy theory and its application to autometic devices] Teoria invariantnosti i ee primenenie v avtomaticheskikh ustroistvakh; trudy soveshchaniia. Moskva, Akad.nauk USSR, Otd-nie tekhn.nauk, 1959. 381 p.

1. Soveshchaniye po teorii invariantnosti i eye primeneniyu v avtomaticheskikh ustroystvakh, Kiyev, 1958. 2. AN USSR (for Ishlinskiy, Khrenov). 3. Chlen-korresp.AN SSSR (for Petrov). (Automatic control)

PATON, Yevgeniy Oskarovich [deceased]; SAVIN, G.N., akademik, otv.red.;
DOBROKHOTOV, N.N., akademik, red.; KHRENOV, K.K., akademik, red.;
BELYANKIN, F.P., akademik, red.; PATON, B. Te., akademik, red.;
KAZANTSKV, B.A., red.izd-va; REMKNNIK, T.K., red.izd-va; KADA-

[Selected works in three volumes] Isbrannye trudy v trekh tomakh. Kiev, Izd-vo Akad.nauk USSR. Vol.1. [Study of the performance of bridge span structures] Issledovaniia raboty proletnykh stroenii mostov. 1959. 578 p. (MIRA 12:10)

1. AN USSR (for Savin, Dobrokhotov, Khrenov, Felyankin, B.Ye.Paton).
(Bridges, Iron and steel)

25(1)

sov/135-59-3-9/24

AUTHORS:

Khrenov, K.K., Academician, and Zhdanov, I.M., Engineer

TITLE:

An Instrument for Measuring Temporary Welding Deformations (Pribor dlya izmereniya vremennykh svarochnykh deformatsiy)

PERIODICAL:

Svarochnoye proizvodstvo, 1959, Nr 3, pp 16-18 (USSR)

ABSTRACT:

This deformation-meter "DRV-2" is designed for the experimental determination of the deformations taking place during the welding process, and the subsequent cooling of metal frame structures. The instrument is of indicator type design and measures the crosswise deformations of a joint. It can also measure the lengthwise deformations in slightly heated areas in a welded joint. Detailed design information is given and the computations to be made are illustrated by examples. The measurement errors caused by the design features do not exceed 0.06 % and can be increased up to 0.25 % by an inaccurate setting.

Card 1/2

Kiew Polytech Inst.

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18(5),28(1)

AUTHOR:

Khrenov, K. K., Member, Academy of Sciences (Ukraine), Poznyak, L. A., Candidate of Technical Sciences, Yuzvenko, Yu. A., Candidate of Technical Sciences, Samotryasov, M. S., Candidate of Technical Sciences

TITLE:

Features of Modification of Seam Welds by Titanium in the Automatic Welding of Medium Steel

PERIODICAL:

Svarochnoye Proizvodstvo, 1959, Nr 6, pp 6-8 (USSR)

ABSTRACT:

In welding high carbon-content steels, hot cracks and tempering structures are formed around the welding zone.

The difficulties are increased if metal is heated before welding. It is shown in Aref 1 and 27 that in metal containing more than 0.16-0.20% C-hydrate heat-fissures are formed. Aref 4 and 57 represent the experiment of introducing fluxes of titanium and aluminum into the welding tub by electrodewires. In Aref 57 there is shown the experiment of removing the heat-fissures in cast steel with a high percentage of C-hydrate (0.50-2.0%) by introducing titanium by powdery-electrodes. The experiment was successful.

Card 1/3

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SOV/135-59-6-2/20

Features of Modification of Seam Welds by Titanium in the Automatic Welding of Medium Steel

However, the result was no modification, but an alloy. The author discusses the influence of titanium into the welding tub by electrode-wires and ceramic fluxes. Two series of investigations have been accomplished: 1) The introduction of various quantities of titanium by Sv-0.8 electrodes in welding with AN-348A and AN-20 fluxes; 2) Introduction of titanium by Sv-0.8 electrodes according to GOST 2246-54 of 5 mm diameter, into welding tub with KS-1 ceramic fluxes [Ref 6]. Table 1 and 2 show the chemical structure of seam metal and the presence of fissures. In Photograph 1 the initial structure of the seams is shown. In Photograph 2 the structure of the seams under influence of ceramic fluxes is shown. Table 3 and 4 represent the results of toughness investigations. According to these, modification may be applied: 1) If the melted metal contains small hard parts which can form the center of crystallization after cooling; 2) If a small quantity of admixture which concentrates at the surface when crystallizing and hinders growing,

Card 2/3

SOV/135-59-6-2/20

Features of Modification of Seam Welds by Titanium in the Automatic Welding of Medium Steel

CANADA INTERESTAL DE LA COMPANSION DE LA

is introduced into the casting. V. I. Danilov Ref 107 has discussed the admixture for heating metals. V. M. Maltsev Ref 137 has been experimenting with the same problem. The author suggests the application of ceramic fluxes containing a modifier for seam-welding with 0.008-0.018% titanium. About 0.5% titanium should be introduced into the weld by electrode-wires. There are 2 photographs, 4 tables, 1 graph and 13 references, 11 of which are Soviet, 1 Japanese and 1 American.

ASSOCIATION: Kiyevskiy politekhnicheskiy institut (Kiyev Politechnical Institute)

Card 3/3

CIA-RDP86-00513R000722320011-3 "APPROVED FOR RELEASE: 09/17/2001

18(5,7) AUTHORS: SOV/135-59-8-5/24

Mazel', A.G., Candidate of Technical Sciences, Burlakova, R.P., Engineer, and Khrenov, K.K., Engineer

TITLE:

Research of Carbon - Dioxide Shielded Welding of Low-

Carbon Steel With Sintering Powder

PERIODICAL:

Svarochnoye proizvodstvo, 1959, Nr 8, pp 15-17 (USSR)

ABSTRACT:

It is known that in welding with carbon-dioxide shield and with an electrode of 2mm and more a lot of metal is spilled. The spatters may close the jet of the burner, which makes it necessary to interrupt the welding frequently in order to clean the burner. The use of special nozzles and feeders with stiff constructions may solve the problem only partially. A complete removal of the spatters is possible by using carbon-dioxide shielded welding with thin electrode-wires of a thickness of 0.8-1 mm, a small precisely regulated electrode arm, and an arc voltage of at the most 17-20 V, which assures that the arc is very frequently short-circuited by the drops of metal. The welding in this case must be carried out by the feeder with a

Card 1/5

Research of Carbon-Dioxide Shielded Welding of Low-Carbon Steel With Sintering Powder

stiff characteristic and high dynamical qualities. If the electrode arm is thin, the welding can be carried out only with weak currents. Therefore, a wire of this sort is recommended for welding of thin metal parts. If the parts are thicker than 3-4 mm, thin wires are not very effective. The study which was done at the VNIIST shows, that the introduction of compounds which form slags into the welding zone is an effective way to remove the spatters in CO₂-shielded welding of large spots. The slag-shield must also add to clean the welding of non-metallic inclusions and to a better removal of the dissolved gases, which improves the plastic qualities in the molten metal. An important advantage of using slag-forming compounds is the fact that this makes it superfluous to use special welding wires. Quite reliable results are obtained with using unkilled steel. Welding with such wires and correspondingly composed slag-forming compounds assures solid seams. The introduction of

Card 2/5

[20] 都能给你的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是这个人,我们就是这个人,我们就是这种的,我们就是我

SOV/135-59-8-5/24 Research of Carbon-Dioxide Shielded Welding of Low-Carbon Steel With Sintering Powder

slag-forming compounds is possible by several methods. The authors used the method of welding with sintering powder. The difference lies in the fact, that welding with sintering powder is not done in the air, but under a shield of CO2. A special apparatus was added to the welding transformer TS-17M (Figure 1) which is used for a simultaneous feeding of the gas and the powder. The powder, which contains iron powder, is magnetized and attracted by the wire as soon as it leaves the tank 1 and comes into the magnetic field caused by the welding current. The special sleeve 2 assures a definite thickness of the layer of flux on the wire. The permanent magnet 3 of the alloys "al'nisi" or "magniko" creates a magnetic field around the wire in case the welding is interrupted and thus prevents a spilling of the flux. The CO2 enters the angular chamber 4 and the nozzle 5 through the gas pipe. The burner is cooled with water which flows through pipe 6. The welding was carried out with the wire of type

Card 3/5

SOV/135-59-8-5/24

Research of Carbon-Dioxide Shielded Welding of Low-Carbon Steel With Sintering Powder

Sv-08A which was 2 mm strong; the electrode had a positive pole with a current of 300-400 A, and the welding speed was 30 m/h. The CO₂ consumption was 1000 1/h. Source of current was the welder PS-500. In determining the composition of the sintering powder it had to be taken into consideration that it is supposed to alloy and modify the seam without forming a gas shield. The powder was produced in the same way as the material for the coats of the electrodes. Table 1 gives the compositions of the fluxes and their technological characteristics. Fluxes with differing proportions of FeTi, Fe,CaF₂, and manganese ore were also produced. The compositions of the fluxes, their technological characteristics, and results of mechanical tests of the molten metal are given in table 2. The authors hope, that the development of a special apparatus for CO₂-shielded welding with an injector for the sintering powder will make it possible in the near future to introduce a new method of welding.

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SOV/135-59-8-5/24

Research of Carbon-Dioxide Shielded Welding of Low-Carbon Steel With Sintering Powder

The authors come to the following conclusions: It is possible to reduce considerably the spattering of the metal if the combined welding method (sintering powder + CO₂) is used instead of welding only with CO₂. It is not necessary in this case to use special welding rods. The welding can be carried out with common low-carbon welding rods. The seams are not porous in this method. The plasticity and solidity of the joints is satisfactory. It is necessary to perfect the mechanism feeding the sintering powder, because the use of an anular permanent magnet does not allow a proportioning of the powder. There are 2 tables, 1 diagram, 6 graphs and 4 references, 2 of which are Soviet and 2 English.

ASSOCIATION: VNIIST

Card 5/5

KHRENOV, K.K. [Khrienov, K.K.], akademik

A congress in Vienna. Nauka i zhyttia 9 no.8:59-60
S '59. (MINA 13:1)

(Welding-Congresses)
(Austria-Description and travel)

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KHRKNOV, K.K. [Khrienov, K.K.], akademik

An achievement of historical importance. Nauka i shyttia 9 no.10:4 0 59. (MIRA 13:2)

1. AN USSR.

(Lunar probes)